1065-1

OSWEGO TOOLS

FOR

Boiler-makers
Machinists
Pipe-workers

Manufactured by
The OSWEGO TOOL CO.
Oswego, N.Y.
U.S.A.

Catalogue No. 27

PAGE	ARTICLE	PER CENT DISCOUNT
10	Machinists' Vise, Stationary Base, Solid Jaw. Class 10.....	25-25
11	Machinists' Vise, Swivel Base, Solid Jaw. Class 20.....	25-25
14	Machinists' Vise, Nutyp Universal, Swivel Base. Class 600.	16⅔-25
15	Machinists' Vise, Nutyp Universal, Clamp Base. Class 500.	16⅔-25
18	Machinists' Vise, Velox Steel Bar, Stationary Base. Class 100	10-25
19	Machinists' Vise, Velox Steel Bar, Swivel Base. Class 200..	10-25
20	Combination Pipe Vise, Swivel Base. Class 50.....	16⅔-25
21	Steamfitters' Vise, Swivel Base. Class 90.....	50
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28	Vise Parts. Classes 10, 20, 100.....	Same discount as applies to complete vise
29	Vise Parts. Classes 200, 50, 60, 80, 90.....	Same discount as applies to complete vise
30	Vise Parts. Classes 70, 500, 600.....	Same discount as applies to complete vise
31	Adjustable "S" Wrench.....	Less than gross lots 40%. Gross and more 40-5
31	Adjustable Straight Handle Wrench.....	Less than gross lots 40%. Gross and more 40-5
31	Extra Parts for Above.....	25
32	Pipe Wrench, Stillson.....	75-5
33	Pipe Wrench, Stillson, Extra Parts.....	75-5
34	Pipe Wrench, Oswego Standard.....	75-5
35	Pipe Wrench, Oswego Standard, and Extra Parts.....	75-5
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37	Oswego Barnes Pipe Cutter and Extra Parts.....	50-25
39	Boilermakers' Steel Screw, Bar Punch.....	60
39	Extra Parts for Above.....	70
41	Oswego Standard Roller Tube Expander.....	75
41	Extra Parts for Above.....	50
42	Oswego Sectional Spring Tube Expander.....	65
42	Extra Parts for Above.....	35

(OVER)

6-25-3000

#75

The Oswego Tool Company

Oswego, New York

Discounts Applying to Catalogue No. 26

This cancels all previous discount sheets.
Lists and discounts subject to change without notice.

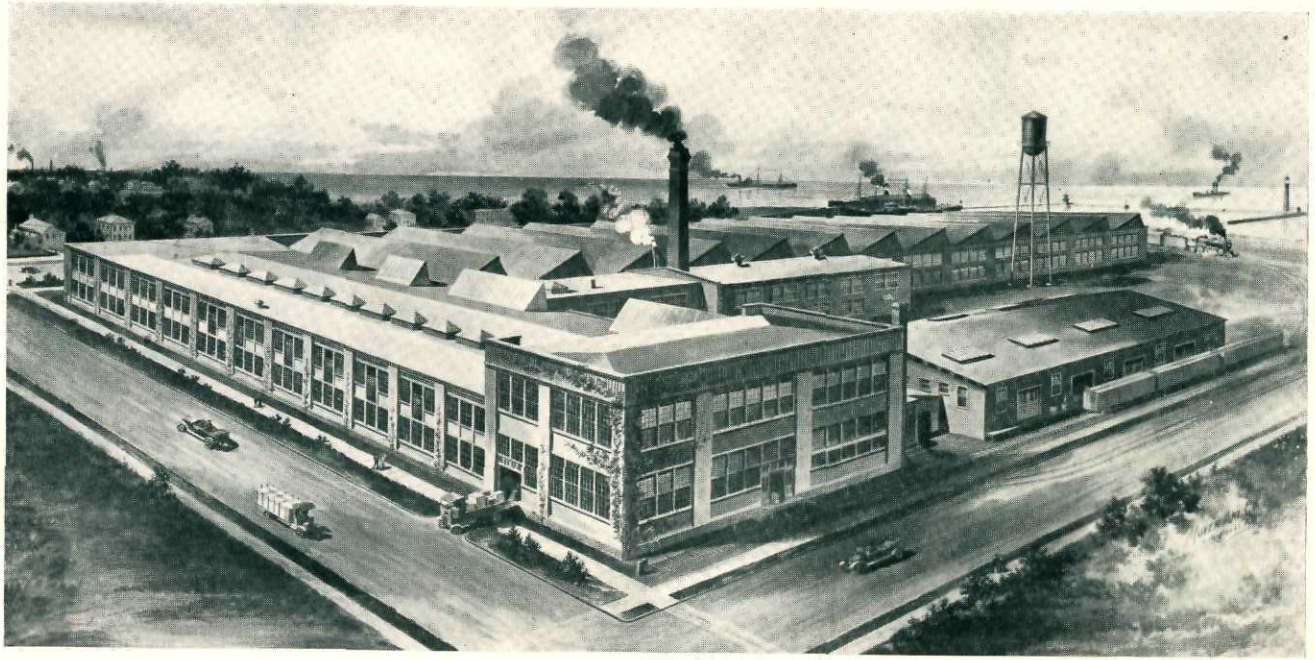
Page		Article	Tool	Extra Spare Parts
6–7	Oswego	Stillson Wrench	75-5%	75-5%
8–9	"	Standard Pipe Wrench	75-5%	75-5%
10	"	Adjustable "S" Nut Wrench, gross lots	40-5%	25%
		Less than gross lots	40%	
		Adjustable Straight Handle 22½° Wrench		
		Gross lots	40-5%	25%
		Less than gross lots	40%	
11	"	Boilermakers' Steel Screw Punch	65%	70%
12	"	Saunders One-Wheel and Roller Pipe Cutter	40-25%	40-25%
13	"	Improved Barnes Pipe Cutter	50-25%	50-25%
14	"	Hinged Vise, Nos. 1A, 2A, 12A, 13A	33⅓-25%	33⅓-25%
14	"	" " Nos. 10A, 11A, 11½A	33⅓-25-5%	33⅓-25%
15	"	Seven-Pound Pipe Vise	$ 2.00 ea. net	
16	"	Jarecki Pattern Vise	40%	12½%
17	"	Heavy Five-Inch Jaw Bench Vise	12-25%	List
18–19	"	Combination Pipe Vise, Nos. 83½ to 86	16⅔-25%	
20	"	" Vise (Smith Pattern)	16⅔-25%	
21	"	" Pipe Vise Repairs		List
22	"	Standard Roller Tube Expander	75%	50%
23	"	"World's Champion" Tube Expander	55%	35%
24	"	Standard Sectional Spring Tube Expander	65%	35%
25	"	Roller Tube Expander (Boss Pattern)	55%	25%
26	"	Boilermakers' Tools	70c ea. net	
		Machinists' Solid Jaw Vise		
		Stationary Base, Nos. 12½ to 16	25-25%	
		Swivel Base, No. 22½ to 26	25-25%	
		Nutype Combination, No. 603	25-25%	

TERMS

60 days net. 2% cash discount for payment in 10 days from date of bill of ng.

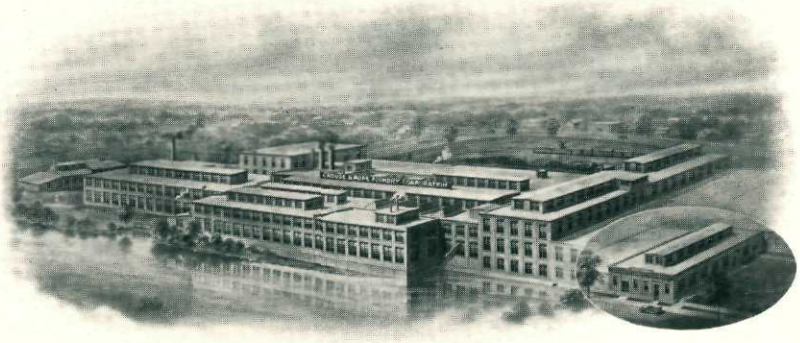
F. O. B. Oswego, N. Y. Usual freight allowance on shipments weigh- 00 pounds or over.

June 15, 1925



PLANT OF THE OSWEGO TOOL COMPANY

FORGE SHOP, PLANT No. 2



GRAY IRON FOUNDRY, PLANT No. 3

THE MANUFACTURE OF OSWEGO TOOLS, from the raw material to the finished product, is controlled by one management; thus insuring uniform and exceptional quality and finish, with prompt service.

MADE IN
OSWEGO
USA

OSWEGO TOOLS

CATALOGUE
No. 27

THE OSWEGO TOOL CO.

ESTABLISHED 1887 INCORPORATED 1893

FACTORY
OSWEGO, N. Y., U. S. A.

AGENCIES

NEW YORK CHICAGO LOS ANGELES PHILADELPHIA
BALTIMORE LONDON, ENGLAND

1925

STILLSON
PATTERN PIPE WRENCHES

STANDARD
PIPE WRENCHES

ADJUSTABLE "S" WRENCHES

TUBE EXPANDERS

PIPE CUTTERS

MACHINISTS' VISES

NUTYP ADJUSTABLE VISES

VELOX QUICK-ACTION VISES

COMBINATION VISES

HINGED PIPE VISES

STEAM FITTERS' VISES

SCREW PUNCHES AND
KINDRED TOOLS

RADCLIFFE PRESS, OSWEGO, N. Y.

INTRODUCTORY

THE business conducted by this company was established in 1887 and incorporated in 1893. Our plant is ideally located in Oswego, with unexcelled shipping facilities and we are able to give our customers prompt deliveries at minimum transportation cost.

Oswego, a growing industrial center, with a population of 25,000, has one of the finest harbors on the Great Lakes. Oswego is served by packet line steamers of the Great Lakes; Barge Canal to New York City and Buffalo or intermediate points; Delaware, Lackawanna & Western; New York, Ontario & Western and New York Central Railroads; Empire State Electric Railroad to Syracuse. Splendid water power and electric development are available, all of which is a guarantee of good service to our customers.

Oswego "Red Label" Tools have been a standard of superiority and quality for nearly forty years and need no introduction to our many satisfied customers.

With a modern plant and an experienced and highly specialized organization, quality products are assured and guaranteed.

We wish to express our appreciation of the loyalty of our large list of satisfied customers and to welcome our growing list of new customers. We assure all of our untiring efforts to supply quality goods and prompt and courteous service.

THE OSWEGO TOOL COMPANY

GUARANTEE

Any tool stamped "Oswego Tool Company" or carrying our Trade Mark, is fully warranted in every respect. Made only from material most suitable for the service intended and best of workmanship. We will replace defective goods or credit them at our invoice price, but will allow no additional charges other than freight.

DELIVERY

F. O. B. Oswego, but with all usual freight allowances as given on our current discount sheets. Our responsibility ceases upon delivery of goods in proper order to the transportation company and all recourse for loss or damage in transit rests with the carrier.

AGREEMENTS

All prices or agreements are subject to the approval and acceptance of an executive officer of the company at Oswego. After acceptance, orders are not subject to cancellation. All orders accepted by us are contingent upon strikes, fires, accidents or causes beyond our control. Agreements or understandings with salesmen or agents must be in writing and approved by our Oswego office.

Claims covering errors or shortages must be made promptly upon receipt of goods by our customer.

SHIPMENTS

Shipping directions should accompany each order, otherwise we will route according to our best judgment and always via freight unless otherwise specified, except when the weight is too little to justify shipment by freight.

ORDERS

Always use catalogue numbers and names when ordering goods. This will enable us to avoid mistakes in shipment.

When goods are returned for repairs, or any reason, name of sender should be plainly marked on package and charges prepaid. Also, write us promptly, giving full information as to what is wanted. This co-operation will enable us to serve our customers promptly and avoid delays.

VISES

BENCH VISES are a most essential and necessary part of any shop equipment. They are frequently required on the farm and now the multitude of public and private garages rapidly coming into existence must be equipped with one or more vises.

Bench Vises have failed to keep pace, in improvements, with other lines of shop equipment. Many of the vises now on the market have not the necessary strength to withstand ordinary and modern usage.

This Company proposes to specialize in offering to the trade such improvements in vises as are proven to be practical in general service.

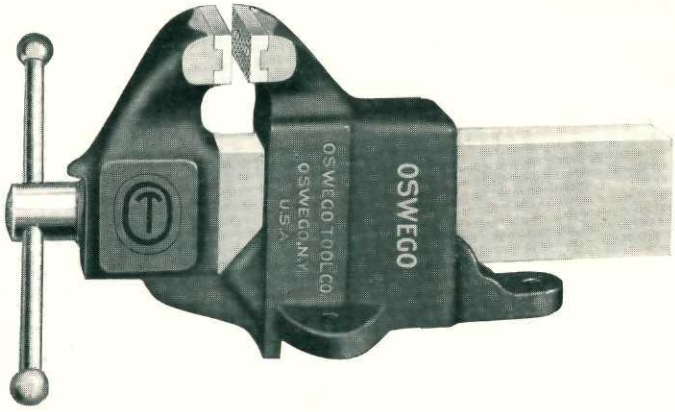
OSWEGO VISES have been designed to most effectively resist the strains required for bending, chipping, riveting and filing.

The material used is the finest grade of gray iron of great tensile strength and made from our own formula.

All machining is done to close limit gauges, which insures correct working fits and perfect interchangeability of all parts.

The vise jaws are removable and are made from high grade tool steel and faced with cross corrugations of our own special design.

OSWEGO VISES have been subjected to the most severe breaking tests and no weakness has been disclosed.



OSWEGO

(Red Label)

Machinists' Solid Jaw Vise

STATIONARY BASE TYPE

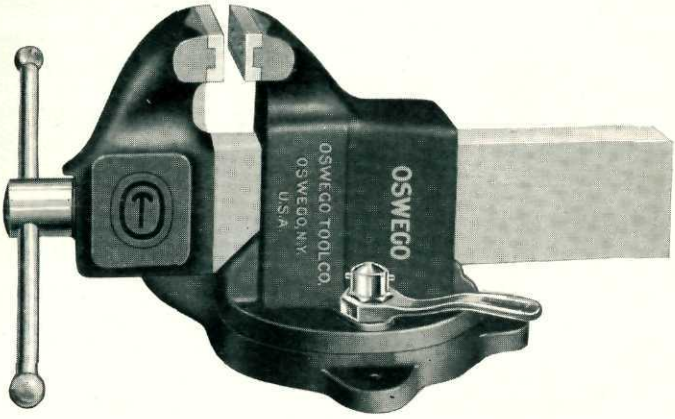
Detachable Steel-Faced Jaws

Class 10

LIST

Vise No.	Code Word	List Price	Width Jaws	Jaws Open	Weight Pounds
12½	Brat	**$ 9.00**	2½"	3½"	17
13	Bright	**10.00**	3 "	4½"	25
13½	Brown	**11.25**	3½"	5 "	30
14	Bruin	**12.75**	4 "	6 "	45
14½	Bruise	**15.50**	4½"	7 "	60
15	Brunt	**20.00**	5 "	8 "	75
16	Brutal	**39.00**	6 "	10 "	150

For Price List of Parts, see page 28.



OSWEGO

(Red Label)

Machinists' Solid Jaw Vise

SWIVEL BASE TYPE

Detachable Steel-Faced Jaws

Class 20

LIST

Vise No.	Code Word	List Price	Width Jaws	Jaws Open	Weight Pounds
22½	Buck	**$12.00**	2½"	3½"	20
23	Bump	**13.00**	3 "	4½"	30
23½	Bunk	**15.00**	3½"	5 "	36
24	Bulb	**17.00**	4 "	6 "	55
24½	Buoy	**20.00**	4½"	7 "	70
25	Bulk	**30.00**	5 "	8 "	90
26	Bunch	**52.00**	6 "	10 "	170

For Price List of Parts, see page 28.

NUTYP VISES

THE NUTYP VISE has been designed with every thought to provide not only a convenient vise for use in the garage, on the farm and in the home, but also for general use of machinists and pipe fitters. It possesses unusual strength without excessive weight, and has many advantages over the regular combination pipe vise.

The pipe jaws are independent of the other jaws, being placed on the opposite side of the vise. This does not choke the throat and prevent holding work in the regular jaw as in the case of the old style vise.

The NUTYP jaws are locked at any desired position or angle by means of the main screw and lever, which also automatically clamps the work. There are also eight different positions located by a plunger and spring in the rear of the saddle, and pressing against the main nut. In the nut are eight drill point holes to correspond with the plunger.

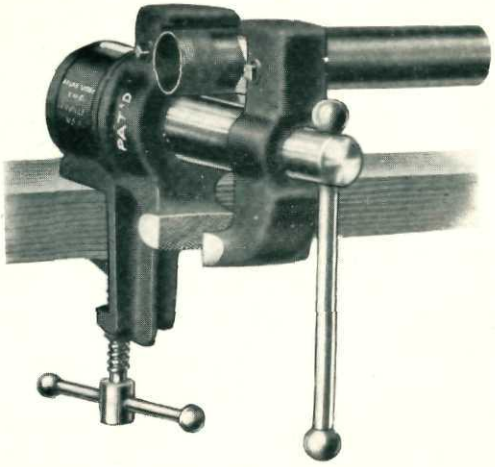
With the swivel base added, the two swivels produce a universal adjustment or range of positions which cannot be secured by any other mechanical means.

Many times it is necessary to grip work at different angles, or in a perpendicular position in order to clear the bench with a wrench, pipe cutter, die, file or other tool. The NUTYP permits the full service of the jaws in any position, with its attendant increase in efficiency and service.

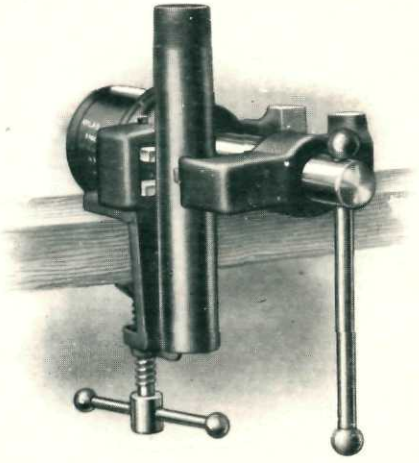
A very large percentage of the parts of an automobile are round. Round parts cannot be held in an ordinary vise without slipping and mutilation. In making repairs a pipe vise is needed more often than a machinists' vise, therefore the NUTYP.

All automobile parts are very closely fitted and accurately made, therefore if the part is mutilated in any manner it becomes practically useless, and of no further service in the operation of the car. One part ruined may cost much more than the price of a NUTYP vise.

The NUTYP with its several adjustments, shear, anvil, and two sets of jaws is really a combination of several vises at the price of one good vise.



The body of the vise is in the form of a cylinder. Position held absolutely secure by grip of jaws on the work. This feature is especially advantageous for pipe fitters and tool makers, but is a time saver on all classes of work.



A High Grade Tool Built on Honor. All Parts Interchangeable.

NUTYP VISE

COMBINATION

Machinists' and Pipe Fitters' Vise, *with Swivel Base*

Class 600

LIST

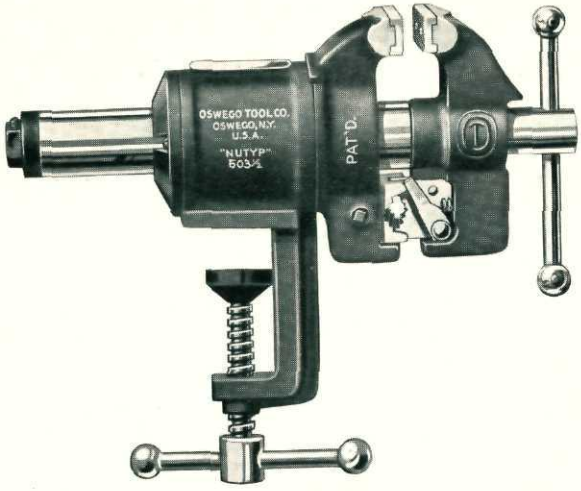
Vise No.	Code Word	List Price	Width Jaws	Pipe	Jaws Open	Shear	Weight Pounds
603½	Alum	**$20.00**	3½"	0-1	3½"	0-¼"	40
604½	Alms	**29.50**	4½"	0-3	5 "	No Shear	80
605	Alder	**40.00**	5 "	0-4	6 "	No Shear	115

For Price List of Parts, see page 30.

Note—Desired tension for rotating jaws is secured by turning the two round head machine screws in the main nut at rear of vise.

Turn *in* to *tighten*. Turn *out* to *loosen*.

NUTYP VISE



PORTABLE COMBINATION VISE

and Special Attachments

Class 500

LIST (ONE SIZE ONLY)

Vise No.	Code Word	List Price	Width Jaws	Pipe	Jaws Open	Shear	Weight Pounds
503½	Alarm	**$20.00**	3″	0-1	3½″	0-¼″	36

For Price List of Parts, see page 30.

Note—Desired tension for rotating jaws is secured by turning the two round head machine screws in *the main nut at rear of vise.*

Turn *in* to *tighten.* Turn *out* to *loosen.*

THE NUTYP VISE

EITHER SET OF JAWS OF NUTYP VISE can be used on top or at any angle and locked when tightened. To secure maximum strength all parts are made of best material possible for the service.

MACHINISTS' VISE. Jaws are removeable, steel faced and tempered.

PIPE VISE. A first-class set of pipe jaws. Bolts or round parts will not become flattened or slip in the jaws.

Vise is highly finished. Carefully inspected before packing. Guaranteed as to workmanship and material.

VELOX VISE

Will Speed Up Production Wherever Vises Are Used

THE VELOX VISE is the *first* quick-action vise ever invented that would give all around satisfaction.

It will outwear any other style of vise made! It will stand heavier strains! It is adapted for every class of vise work. Nothing to get out of order.

No modern shop has the best vise equipment on its benches unless VELOX VISES are used.

The usual standard bench vise has a hollow grey iron rectangular bar while *the Velox has an unbreakable solid steel rectangular bar.*

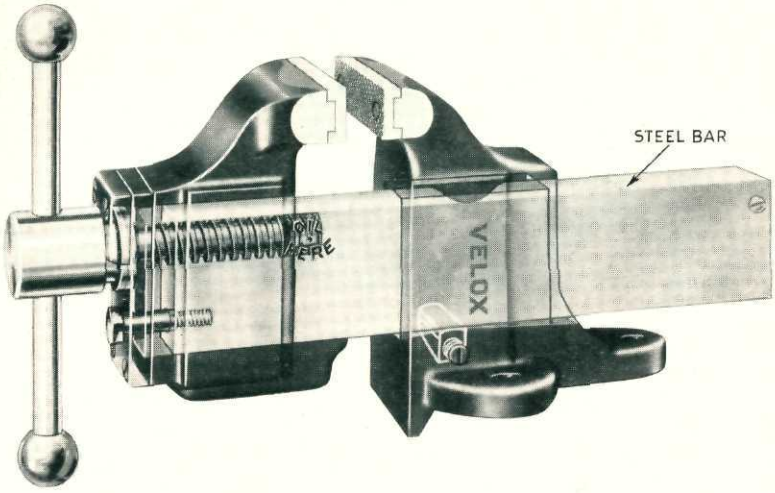
The VELOX VISE is fundamentally strong and trustworthy. The design is theoretically and practically sound. It is designed on the pinch-bar, instant-locking principle and it grips the work quicker than any vise ever before built.

DESIGN: All styles and sizes are properly proportioned and *guaranteed uniform in proportion and strength.*

STEEL BAR: Narrow steel bar gives more clearance in throat of vise, especially advantageous for deep work, *and guaranteed unbreakable.*

SCREWS: None to operate except to secure proper tension on work.

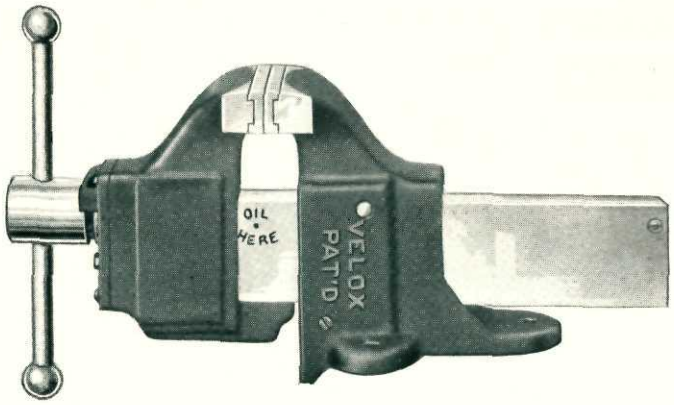
TIME: *None required to adjust the jaws* from one size work to another.



HOW IT WORKS

The squeeze against the work, or the release of the work, is secured in the ordinary way—by a slight turn of the tightening screw in either direction.

To adjust this vise to varying work, the front jaw is slightly raised and easily slides in or out with one movement. The work is inserted. The bar locks absolutely the instant the up-pressure is removed. The grip is then given by a slight turn of the tightening screw in the regular way.



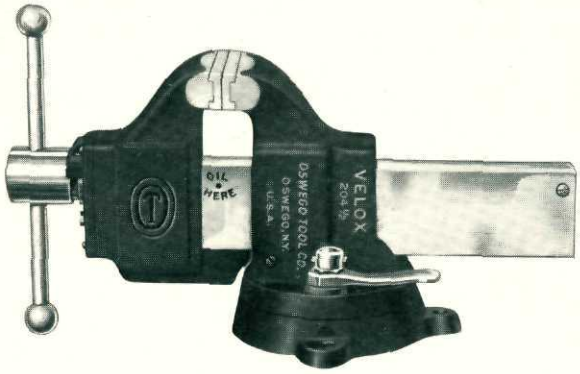
VELOX

(Patented and Registered in United States Patent Office)

STATIONARY BASE
MACHINISTS' SOLID JAW, PARALLEL VISE

Vise No.	Code Word	List Price	Width Jaws	Jaws Open	Weight Pounds
104½	Acid	**$15.50**	4½"	8 "	55

For Price List of Parts, see page 28.



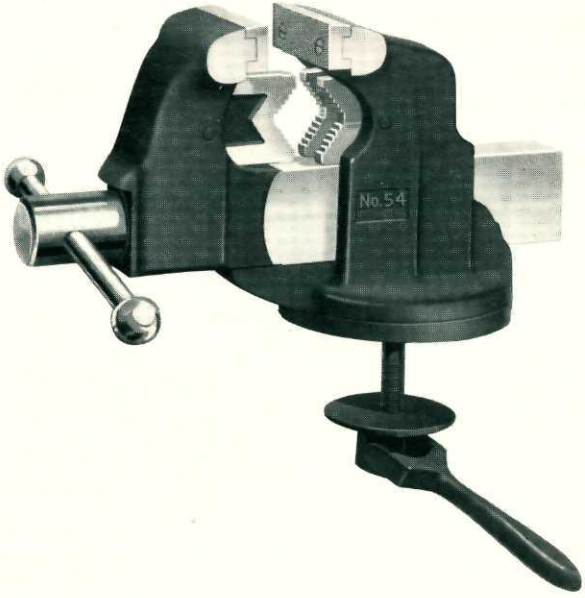
VELOX

(Patented and Registered in United States Patent Office)

SWIVEL BASE
MACHINISTS' SOLID JAW, PARALLEL VISE

Vise No.	Code Word	List Price	Width Jaws	Jaws Open	Weight Pounds
204½	Blade	**$20.00**	4½"	8 "	65

For Price List of Parts, see page 29.



Oswego Combination Vise

Class 50

THIS VISE has ample weight and strength and is fitted with renewable machinists' and pipe jaws. Nicely finished and guaranteed as to material and workmanship.

LIST

Vise No.	Code Word	List Price	Holds Pipe	Width Jaws	Jaws Open	Weight Pounds
53½	Park	**$16.00**	⅛ to 2 "	3½"	4¾"	46
54	Parry	**22.00**	⅛" to 3"	4 "	6½"	90
55	Parse	**32.00**	⅛" to 4"	5 "	6½"	120
56	Part	**45.00**	⅛" to 6"	6 "	10 "	175

For Price List of Parts, see page 29.

Oswego Steamfitters' Vise

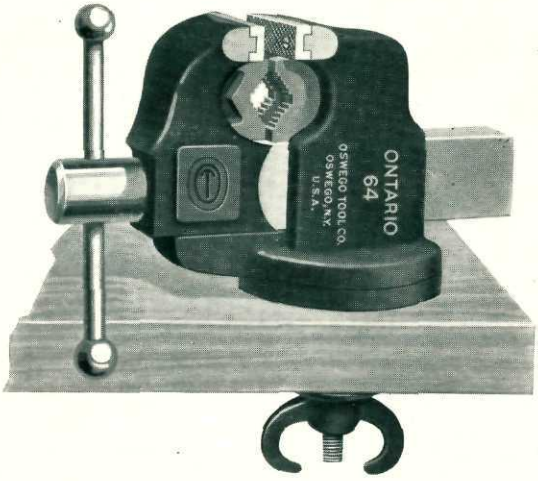
Class 90

THE OSWEGO STEAMFITTERS' VISE is designed and built especially for the most severe and exacting work, which is required of a vise of this class in railroad, machine shops, mills and large manufacturing plants.

LIST

Vise No.	Code Word	List Price	Width Jaws	Weight Pounds
94⅝	Wall	**$23.00**	4⅝"	75

For Price List of Parts, see page 29.



Ontario Combination Vise

(Smith Pattern)

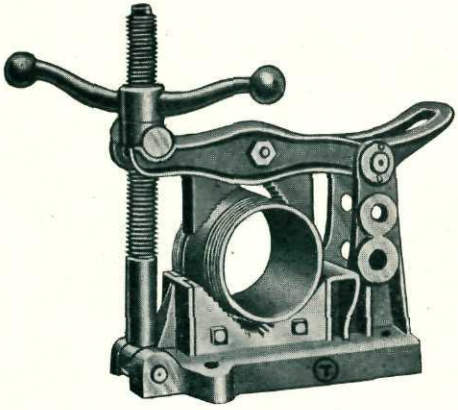
Class 60

The ontario combination vise has all the qualities of design, strength and material of the best vises on the market.

LIST

Vise No.	Code Word	List Price	Holds Pipe	Width Jaws	Jaws Open	Weight, Pounds
63½	Smile	**$16.00**	0″ to 2″	3½″	4¾″	50
64	Smite	**22.00**	0″ to 3″	4 ″	6½″	70
65	Smith	**32.00**	0″ to 4″	5 ″	8 ″	100

For Price List of Parts, see page 29.



Oswego Beam Pipe Vise

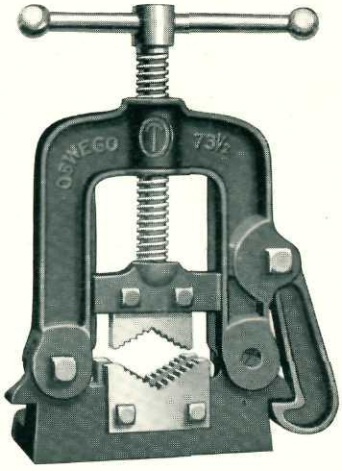
Class 80

It will be seen by referring to the above cut that the beam which holds the upper jaw is hinged. By this method the pipe can be placed in the vise at any point. The side opening has other advantages; the vise may be used for holding pipe while fittings are screwed on one or both ends, or for taking apart old pipe work.

LIST

Vise No.	Code Word	List Price	Holds Pipe	Weight Pounds
82	Jag	**$12.00**	⅛″ to 2″	21½
84	Jade	**16.00**	⅛″ to 4″	30
86	Jam	**24.00**	1½″ to 6″	61
812	Jar	**60.00**	6 ″ to 12″	160

For Price List of Parts, see page 29.



Oswego Standard Malleable Iron Pipe Vise

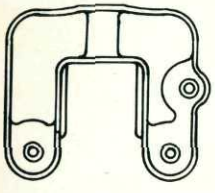
Class 70

HINGED frame with hook lock. Our customers will find this line of vises made of the best material and workmanship and equal to any line on the market.

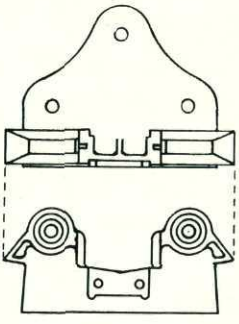
LIST

Vise No.	Code Word	List Price	Holds Pipe	Weight Pounds
71¼	Vase	**$ 2.50**	0″ to 1¼″	3
71½	Veal	**3.60**	0″ to 1½″	5
72	Vista	**4.25**	0″ to 2 ″	8
72½	View	**5.00**	0″ to 2½″	10
73½	Void	**7.50**	0″ to 3½″	17
74½	Vote	**11.00**	0″ to 4½″	25

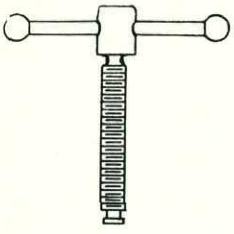
For Price List of Parts, see page 30.



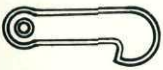
YOKE PART NO 39



BASE-PART NO. 40



SCREW AND HANDLE-
PART NO. 41

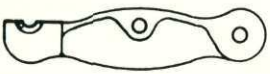


HOOK-PART NO. 45

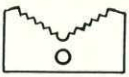
JAW CLAMPS-
PART NO. 42

UPPER JAW-
PART NO. 43

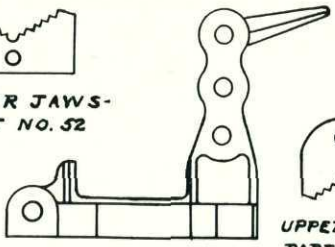
LOWER JAWS-
PART NO. 44



BEAM-PART NO. 47

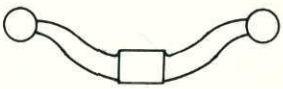


LOWER JAWS-
PART NO. 52



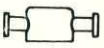
FRAME-PART NO. 46

UPPER JAW-
PART NO. 51



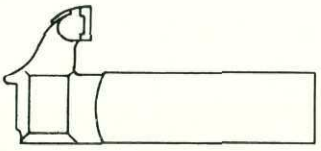
WING NUT-PART NO. 49

SCREW-PART NO. 48

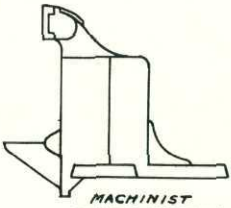


WING COLLAR-
PART NO. 50

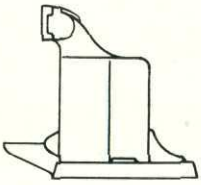
FORK-PART NO. 53



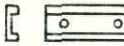
MACHINIST SLIDING BAR - PART NO. 1



MACHINIST STA. BASE BODY PART NO. 2

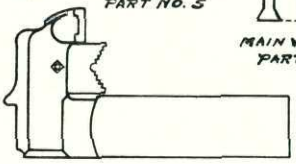


MACHINIST SWIVEL BASE BODY PART NO. 3

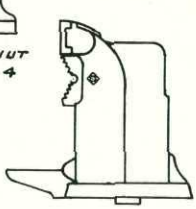


DETACHABLE STEEL JAWS PART NO. 5

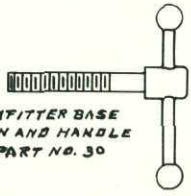
MAIN VISE NUT PART NO. 4



COMBINATION SLIDING BAR PART NO. 19



COMBINATION SWIVEL BASE BODY PART NO. 20

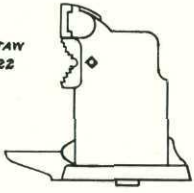


STEAMFITTER BASE SCREW AND HANDLE PART NO. 30

BAR PIPE JAW PART NO. 21

BODY PIPE JAW PART NO 22

COMBINATION SLIDING BAR PART NO. 19

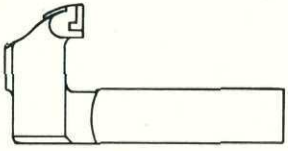


COMBINATION SWIVEL BASE BODY PART NO. 20

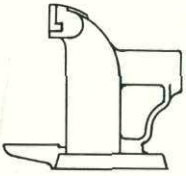
SWIVEL BASE PLATE PART NO. 8

SWIVEL BASE PLATE PART NO. 23

SWIVEL BASE STUD PART NO. 24

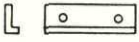


STEAMFITTER SLIDING BAR PART NO. 27



STEAMFITTER SWIVEL BASE BODY PART NO. 28

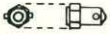
SIDE TAPER BOLT PART NO. 10



STEAMFITTER DETACHABLE STEEL JAWS - PART NO. 29

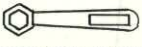
SWIVEL BASE WING NUT PART NO. 25

SWIVEL BASE WASHER PART NO. 26

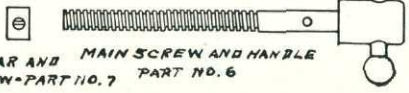


SIDE NUT PART NO. 11

CENTER STUD FOR BASE PART NO. 9

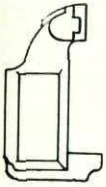


SIDE WRENCH PART NO. 12

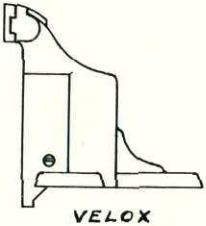


COLLAR AND SCREW - PART NO. 7

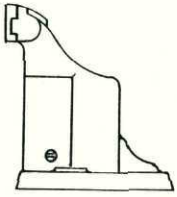
MAIN SCREW AND HANDLE PART NO. 6



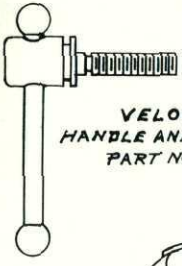
VELOX FRONT JAW-
PART NO. 14



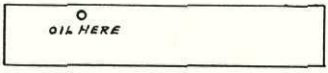
VELOX
STA. BASE BODY-
PART NO. 15



VELOX
SWIVEL BASE BODY-
PART NO. 18

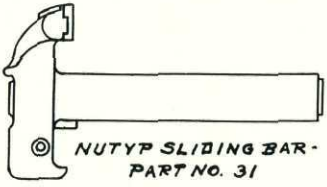


VELOX
HANDLE AND SCREW-
PART NO. 16

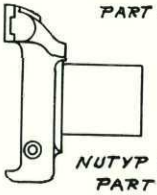


VELOX STEEL SLIDING BAR-
PART NO. 13

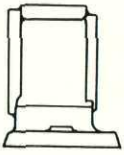
VELOX
SCREW PLATE
AND COLLAR-
PART NO. 17



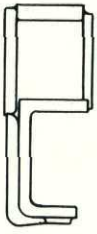
NUTYP SLIDING BAR-
PART NO. 31



NUTYP BODY
PART NO. 32



NUTYP
SWIVEL BASE SADDLE
PART NO. 38

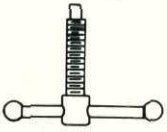


NUTYP
CLAMP BASE SADDLE
PART NO. 33

NUTYP NUT
PART NO. 34

NUTYP CLAMP
WASHER-PART NO. 37

NUTYP
SLIDING BAR COLLAR
PART NO. 35



NUTYP CLAMP SCREW
AND HANDLE
PART NO. 36

Price List of Vise Parts

Vise No.	Sliding Jaw Part No. 1	Body Part No. 2	Main Nut Part No. 4	Detachable Steel Jaws Part No. 5	Main Screw and Handle Part No. 6	Collar Part No. 7
12½	$ 4.50	$ 4.50	$ .50	$1.10 each	91.75	$.30
13	5.00	5.00	.65	1.20 each	2.00	.30
13½	5.60	5.60	.80	1.30 each	2.40	.30
14	6.50	6.50	.90	1.50 each	3.00	.40
14½	7.80	7.80	1.20	1.70 each	4.00	.40
15	10.00	10.00	1.60	1.90 each	5.00	.50
16	19.50	19.50	2.25	2.40 each	8.00	.70

Vise No.	Sliding Jaw Part No. 1	Body Part No. 3	Main Nut Part No. 4	Detachable Steel Jaws Part No. 5	Main Screw and Handle Part No. 6	Collar Part No. 7	Base Plate Part No. 8	Base Stud Part No. 9	Taper Bolt Part No. 10	Side Nut Part No. 11	Wrench Part No. 12
22½	$ 4.50	$ 4.50	$ .50	$1.10 each	$1.75	$ .30	$2.20	$ .40	$ .40	$ .30	$ .30
23	5.00	5.00	.65	1.20 each	2.00	.30	2.50	.50	.50	.40	.40
23½	5.60	5.60	.80	1.30 each	2.40	.30	3.00	.60	.60	.50	.50
24	6.50	6.50	.90	1.50 each	3.00	.40	4.00	.70	.70	.60	.60
24½	7.80	7.80	1.20	1.70 each	4.00	.40	5.00	.80	.80	.70	.70
25	10.00	10.00	1.60	1.90 each	5.00	.50	6.00	.90	.90	.80	.80
26	19.50	19.50	2.25	2.40 each	8.00	.70	8.00	1.20	1.20	1.00	1.00

Vise No.	Steel Slide Part No. 13	Front Jaw Part No. 14	Body Part No. 15	Screw and Handle Part No. 16	Collar and Plate Part No. 17	Detachable Steel Jaws Part No. 5
102½	$ 4.50	$ 4.50	$ 4.50	$1.75	$1.30	$1.10 each
103	5.00	5.00	5.00	2.00	1.40	1.20 each
103½	5.60	5.60	5.60	2.40	1.50	1.30 each
104	6.50	6.50	6.50	3.00	1.60	1.50 each
104½	7.80	7.80	7.80	4.00	1.70	1.70 each
105	10.00	10.00	10.00	5.00	1.80	1.90 each
106	19.50	19.50	19.50	8.00	1.90	2.40 each

Price List of Vise Parts—Continued

Vise No.	Steel Slides Part No. 13	Front Jaw Part No. 14	Body Part No. 18	Screw and Handle Part No. 16	Collar Plate Part No. 17	Detachable Steel Jaws Part No. 15	Base Plates Part No. 8	Base Stud Part No. 9	Taper Bolt Part No. 10	Side Nut Part No. 11	Wrench Part No. 12
202½	$ 4.50	$ 4.50	$ 4.50	$1.75	$1.30	$1.10 each	$2.20	$ .40	$ .40	$ .30	$ .30
203	5.00	5.00	5.00	2.00	1.40	1.20 each	2.50	.50	.50	.40	.40
203½	5.60	5.60	5.60	2.40	1.50	1.30 each	3.00	.60	.60	.50	.50
204	6.50	6.50	6.50	3.00	1.60	1.50 each	4.00	.70	.70	.60	.60
204½	7.80	7.80	7.80	4.00	1.70	1.70 each	5.00	.80	.80	.70	.70
205	10.00	10.00	10.00	5.00	1.80	1.90 each	6.00	.90	.90	.80	.80
206	19.50	19.50	19.50	8.00	1.90	2.40 each	8.00	1.20	1.20	1.00	1.00

Vise No.	Sliding Bar Part No. 19	Body Part No. 20	Screw and and Handle Part No. 6	Nut Part No. 4	Collar Part No. 7	Front Pipe Jaw Part No. 21	Body Pipe Jaws Part No. 22	Base Plate Part No. 23	Base Stud Part No. 24	Base Nut Part No. 25	Washer Part No. 26	Detachable Steel Jaws Part No. 5
53½	$ 6.00	$ 6.00	$3.50	$1.10	$.20	$ .80	$ .80 each	$1.00	$ .30	$ .25	$.20	$1.30 each
54	8.00	8.00	4.20	1.50	.25	1.20	1.10 each	1.80	.50	.40	.30	1.50 each
55	12.00	12.00	5.50	1.75	.40	2.00	1.80 each	2.50	.80	.60	.50	1.90 each
56	16.00	16.00	8.80	2.80	.40	3.00	2.50 each	3.00	1.00	1.00	.60	2.40 each
63½	6.00	6.00	3.50	1.10	.20	.80	.80 each	1.00	.30	.25	.20	1.30 each
64	8.00	8.00	4.20	1.50	.25	1.20	1.10 each	1.80	.50	.40	.30	1.50 each
65	12.00	12.00	5.50	1.75	.40	2.00	1.80 each	2.50	.80	.60	.50	1.90 each

Vise No.	Sliding Bar Part No. 27	Body Part No. 28	Screw and Handle Part No. 6	Collar Part No. 7	Detachable Steel Jaws Part No. 29	Base Screw and Handle Part No. 30	Washer Part No. 26
94⅝	$9.50	$9.50	$5.60	$.35	$2.00 each	$2.20	$.30

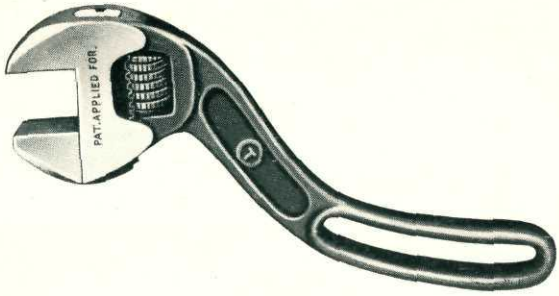
Vise No.	Frame Part No. 46	Beam Part No. 47	Screw Part No. 48	Wing Nut Part No. 49	Wing Collar Part No. 50	Upper Jaw Part No. 51	Lower Jaws Part No. 52	Hinge Pin	Jaw Pin	Screw Pin	Fork Part No .53
82	$ 2.05	$ .95	$1.80	$1.55	$.40	$2.15	$1.45 each	$.40	$.20	$.25	----
84	3.95	1.20	2.35	1.70	.45	3.15	2.40 each	.60	.20	.25	----
86	6.95	1.85	2.75	1.80	.60	3.85	3.00 each	.60	.20	.30	----
812	10.00	3.95	4.20	1.80	.80	7.50	7.70 each	.75	.20	.30	$8.85

Price List of Vise Parts—Continued

Vise No.	Yoke Part No. 39	Base Part No. 40	Screw and Handle Part No. 41	Jaw Clamps Part No. 42	Upper Jaw Part No. 43	Lower Jaws Part No. 44	Hook Part No. 45
71¼	$ .60	$ .95	$ .70	$.25	$ .40	$ .40 each	$.25
71½	.90	1.40	1.00	.25	.50	.50 each	.25
72	1.00	1.60	1.20	.25	.60	.60 each	.30
72½	1.20	1.90	1.40	.30	.60	.60 each	.35
73½	1.80	2.80	2.20	.45	.85	.85 each	.50
74½	2.65	4.20	3.00	.65	1.20	1.20 each	.75

Vise No.	Sliding Jaw Part No. 3	Body Part No. 32	Saddle Part No. 33	Main Nut Part No. 34	Detachable Steel Jaws Part No. 5	Main Screw and Handle Part No. 6	Adjustable Collar Part No. 35	Shear Blade	Front Pipe Jaw Part No. 21	Back Pipe Jaws Part No. 22	Clamp Screw and Lever Part No. 36	Swivel Button Part No. 37
503½	$6.50	$6.50	$7.50	$1.60	$1.30 each	$2.40	$.85	$1.75	$1.60	$.80 each	$2.40	$.60

Vise No.	Sliding Jaw Part No. 31	Body Part No. 32	Saddle Part No. 38	Main Nut Part No. 34	Detachable Steel Jaws Part No. 5	Main Screw and Handle Part No. 6	Adjustable Collar Part No. 35	Base Plate Part No. 8	Base Stud Part No. 9	Taper Bolt Part No. 10	Side Nut Part No. 11	Wrench Part No. 12	Shear Blade	Front Pipe Jaw Part No. 21	Back Pipe Jaws Part No. 22
603½	$ 6.50	$ 6.50	$ 6.50	$1.60	$1.30 ea.	$2.40	$ .85	$3.00	$.30	$.60	$.50	$.50	$1.75	$1.60	$ .80 ea.
604½	10.00	9.00	9.00	2.50	1.70 ea.	4.00	1.00	5.00	.80	.80	.70	.70	None	1.20	.60 ea.
605	14.00	12.50	12.50	3.50	2.40 ea.	5.00	1.20	6.00	.90	.90	.80	.80	None	2.00	1.00 ea.



Oswego Adjustable "S" Nut Wrench

THESE OSWEGO ADJUSTABLE "S" NUT WRENCHES are of good design and made of the best material. The movable jaw is drop forged from tool steel. The nut is made from bar steel, scientifically hardened and tempered. These wrenches are adaptable for all purposes and can be used in many irregular places where it is impossible to operate a monkey wrench.

Oswego Adjustable Straight Handle 22½° Wrench

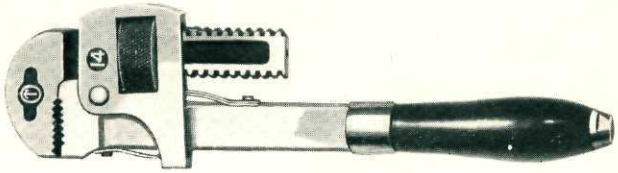
Made in 6-inch, 8-inch, and 10-inch sizes, only.

THIS OSWEGO ADJUSTABLE STRAIGHT HANDLE 22½° WRENCH is similar to the above description of the Oswego Adjustable "S" Nut Wrench except that it has a straight instead of a curved handle, with the jaw at an angle of 22½ degrees.

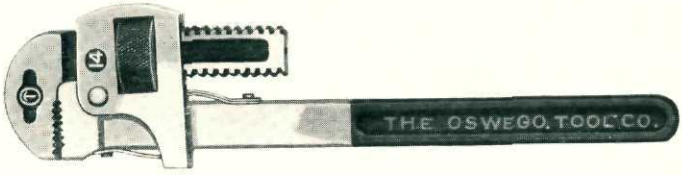
It is especially adapted for automobile work.

LIST

Size Inches	List Price per Doz.	Weight Dozen Pounds	Jaws Open to	List Jaws, Each	Weight Each, Ounces	List Thumb Nuts, Each	List Stop Screws, Each
6	**$ 8.00**	4	¾"	$ .20	2	$ .10	$ .03
8	**10.00**	11	1 "	.30	4	.15	.03
10	**12.00**	23	1⅜"	.40	7	.20	.03
12	**18.00**	37	1⅝"	.50	12	.25	.03
14	**24.00**	55	2 "	.60	19	.30	.03



6-8-10-14 Inches



6-8-10-14-18-24-36-48 Inches

Oswego Stillson Wrenches

Forged from high grade tool steel, thoroughly tested and absolutely warranted. Parts are interchangeable with similar wrenches. In placing orders, please specify whether wood or steel handle wrenches are wanted.

Size Inches	Code Word Wood Handle	Code Word Steel Handle	List Price Each	Capacity Pipe Inches	Weight Pounds Per Dozen Boxed Wood	Weight Pounds Per Dozen Boxed Steel
			LIST			
6	Woe	Wad	**$ 2.00**	⅛ to ½	4	4
8	Won	Waft	**2.25**	⅛ to ¾	8	8
10	Work	Wag	**2.50**	⅛ to 1	18	18
14	Worn	Wax	**3.50**	¼ to 1½	32	34
18	.....	Wed	**5.00**	¼ to 2	....	52
24	.....	Whip	**7.25**	¼ to 2½	....	96
36	.....	Wit	**13.50**	¼ to 3½	....	200
48	.....	Wind	**20.00**	1 to 5	....	300

Steel Handle Bar

Steel Handle Bar

Wood Handle Bar

Jaw

Frame

Frame Pin

Knurled Nut

Grip

End Nut

Oswego Stillson Wrench Parts

LIST, PARTS

Size Inches	Jaws	Frames	Wood Grip and Ferrule	Handle Bar	Knurled Nuts	Frame Pins	End Nuts	Ferrules	Springs	No. of Springs Each Wrench
6	$ .75	$ .38	$ .16	$ .95	$ .12	$ .03	$ .15	$ .10	$ .10	1
8	.80	.42	.16	1.00	.15	.03	.15	.10	.10	1
10	.85	.50	.18	1.10	.20	.04	.20	.12	.10	3
14	1.15	.60	.25	1.50	.30	.04	.20	.15	.10	3
18	1.75	.75	----	2.25	.35	.04	----	----	.10	3
24	2.25	.95	----	3.50	.55	.04	----	----	.11	3
36	4.35	1.70	----	7.00	1.10	.05	----	----	.13	1
48	7.50	2.20	----	10.50	1.50	.05	----	----	.13	1

Oswego Stillson Pipe Wrenches are made to standard limits and the parts are interchangeable with those of other standard makes of wrenches of this type.

6–18-Inch Wrench

24-Inch Wrench

36 and 48-Inch Wrench

Oswego Standard Pipe Wrench

LIST

Length Open, Inches	Code Word	Grips, Inches	Wrenches, complete
6	Triad	⅛ to ½	**$2.00**
8	Trial	⅛ to ¾	**2.25**
10	Tribe	⅛ to 1	**2.50**
14	Trick	¼ to 1½	**3.50**
18	Trig	¼ to 2	**5.00**
24	Trim	¼ to 2½	**7.25**
36	Trio	½ to 3½	**13.50**
48	Trip	1 to 5	**20.00**

WEIGHTS

Length Open, Inches	**6**	**8**	**10**	**14**	**18**	**24**	**36**	**48**
	lb. oz.	lb. oz.	lb. oz.	lb. oz.	lb. oz.	lb. oz.	lb. oz.	lb. oz.
Weight Complete, 6 in a box	2 2½	4	9 11	17 8	28	50	98	164
Jaw	2	3½	8	14	1 7	2 6	4 4	6 13
Steel Handle Bar	3	5	10	1 5	2 3	4 8	8 8	14 8
Frame	½	1½	3	6	7	14	1 3	1 5
Knurled Nut	¼	½	1½	2	2½	5	12	14

Steel Handle Bar

Frame Pin | Frame | Inserted Jaw | Steel Handle Bar | Pin | Spring | Nut

Movable Jaw

Oswego Standard Pipe Wrench Parts

LIST OF PARTS

Movable Jaws ..... each	$ .75	$ .80	$ .85	$1.15	$1.75	$2.25	$4.35	$7.50
Nuts ..... each	.12	.15	.20	.30	.35	.55	1.10	1.50
Inserted Jaws ..... each	.35	.40	.50	.60	.70	.80	1.10	2.00
Frames ..... each	.40	.45	.55	.70	.95	1.40	2.20	2.70
Springs and Pins ..... each	.03	.03	.03	.03	.04	.04	.04	.04
Frame Pins ..... each	.03	.03	.04	.04	.04	.04	.05	.05
Jaw Pins ..... each	.03	.03	.04	.04	.04	.04	.05	.05
Steel Handle Bar ..... each	.95	1.00	1.10	1.50	2.25	3.50	7.00	10.50

The parts of these wrenches, which are manufactured by The Oswego Tool Company of Oswego, N. Y., are similar to and interchangeable with the corresponding parts of the wrench made by the Trimont Manufacturing Co., under Patent No. 429088, and which expired May 27, 1907, and which became known during the life of the patent as the Trimo Wrench.

Oswego Saunders One-Wheel and Roller Pipe Cutter

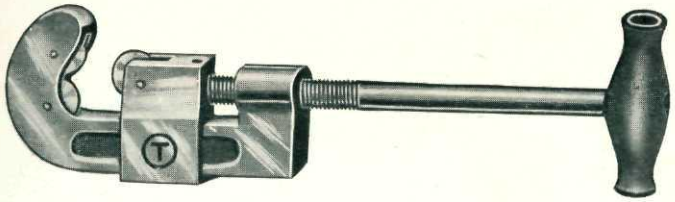
PIPE CUTTERS of the roller style are suitable only for work where the cutter can be revolved entirely around the pipe. It cuts the pipe without leaving a burr on the outside, and for this reason is preferred to the three-wheel cutter on open work.

This cutter has ample material in all sections and is strong and rigid. Every cutter is tested before leaving the factory and is guaranteed throughout.

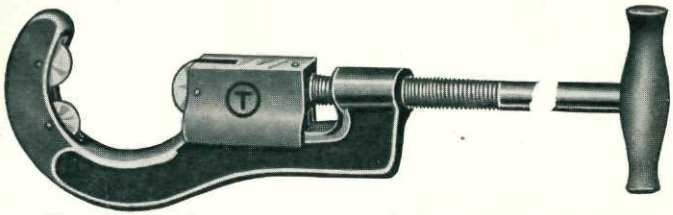
Knife blade cutter wheels will be furnished with all pipe cutters as standard equipment. Thick wheels can be supplied, if so ordered.

LIST

Cutter No.	List Price, Each	Cuts Pipe	Weight Each, Pounds	List Wheels, Dozen	Weight Wheels, Dozen Ounces	List Rollers, Dozen	List Pins, Dozen	Blocks and Wheels, Each	Handle and Screw, Each
1S	**$ 3.00**	⅛″ to 1″	2½	$2.88	7	$2.88	$1.20	$1.25	$1.00
2S	**4.50**	1 ″ to 2″	6	3.84	14	3.84	1.20	1.75	1.25
3S	**11.00**	2 ″ to 3″	12	7.20	44	6.00	1.80	2.75	1.75
4S	**18.00**	2½″ to 4″	14	7.20	44	6.00	1.80	3.50	3.50
5S	**28.00**	4 ″ to 6″	22	7.20	44	7.20	1.80	4.00	5.00



This cut illustrates style of Cutters Nos. 1 and 2, cutting pipe ⅛ to 2 inches in diameter.



This cut illustrates style of Cutters Nos. 3 to 7, cutting pipe 1⅛ to 12 inches in diameter.

Oswego Improved Barnes Pipe Cutter

Cutting Pipe from ⅛ to 12 Inches in Diameter

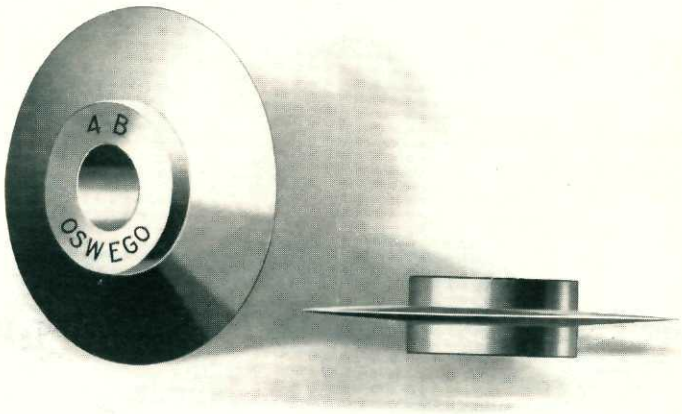
WHERE IT IS IMPOSSIBLE to revolve the cutter entirely around the pipe, the three-wheel style of pipe cutter is especially adapted for the work. The sliding block is of special solid construction and will not spread. Each cutter is tested for tracking and is guaranteed throughout.

Knife blade cutter wheels will be furnished with all pipe cutters as standard equipment. Thick wheels can be supplied, if so ordered.

LIST

Cutter No.	List Price, Each	Cuts Pipe	Weight Each, Pounds	List Wheels, Dozen	Weight Wheels, Dozen Ounces	List Pins, Dozen	List Body, Each	Slide and Wheel, Each	Handle and Screw, Each
1 B	**$ 4.50**	⅛″ to 1″	3	$3.00	6	$1.00	$ 1.75	$ .75	$ 1.00
2 B	**6.00**	½″ to 2″	5	3.60	10	1.00	2.60	1.00	1.25
3 B	**10.00**	1½″ to 3″	8½	4.80	14	1.00	4.55	2.00	2.25
4 B	**20.00**	2½″ to 4″	13½	6.00	25	2.00	9.50	4.50	4.50
5 B	**30.00**	4 ″ to 6″	22	9.00	46	2.00	13.75	7.00	7.00
6 B	**40.00**	6 ″ to 8″	27	9.00	46	2.00	20.00	8.50	9.25
6½B	**45.00**	8 ″ to 10″	35	9.00	46	2.00	23.00	9.50	10.25
7 B	**50.00**	9 ″ to 12″	51	9.00	46	2.00	25.00	11.25	11.50

Nut and body is in one piece in sizes 3 to 7 inclusive



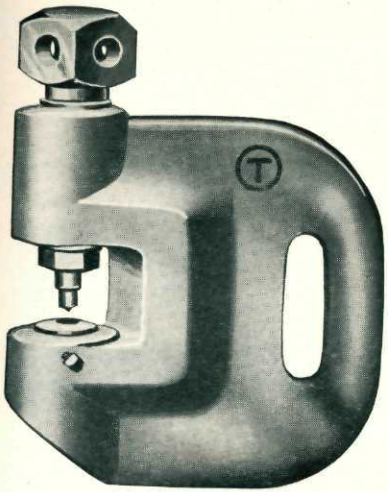
Oswego Knife Blade Cutter Wheels

THE OSWEGO KNIFE BLADE CUTTER WHEEL is now recognized as the best and most efficient type of cutter. It cuts more easily and rapidly than the old, thick wheel and reduces the burr on the side of the pipe to the minimum.

The OSWEGO KNIFE BLADE CUTTER WHEEL is scientifically designed and will give maximum service. They are machined in our own plant from Vanadium bar stock, which is the very best grade obtainable for this purpose.

Correctly and uniformly tempered by electrically controlled furnaces, each wheel bears our own stamp and carries our usual, strong guarantee as to workmanship, material and satisfaction.

The knife blade cutter wheel is now generally considered as standard equipment and all our cutters are so furnished unless ordered otherwise.



Punch

Coupling
Left Hand Thread

Die

Oswego Boilermakers' Steel Screw Punch

THE BODY OF THIS BOILERMAKERS' STEEL SCREW PUNCH is a high grade electric steel casting, having a tensile strength of 80,000 pounds. The parts are carefully machined and fitted. The tool is fully guaranteed to do the work up to the capacity given.

LIST

Screw Punch No.	Code Word	List Price	Punches Hole	Thickness Plate	Distance From Edge	Weight Each, Pounds
A or 00	Pan	**$20.00**	5/16"	1/4"	1 1/2"	13
B or 0	Peace	**24.00**	1/2"	1/4"	1 1/2"	17
C or 1	Pear	**30.00**	1/2"	5/16"	1 1/2"	25
D or 2	Pen	**40.00**	3/4"	1/2"	2 "	41
E or 3	Pill	**60.00**	3/4"	3/4"	2 1/2"	64
F or 3 1/2	Poke	**75.00**	3/4"	3/4"	3 1/2"	78
G or 4	Pump	**80.00**	3/4"	3/4"	4 "	92

In ordering punches, specify rivet sizes of punches and dies wanted. Punches are 1/32-inch larger than rivet sizes up to 7/16-inch; 1/2-inch and above, 1/16-inch larger.

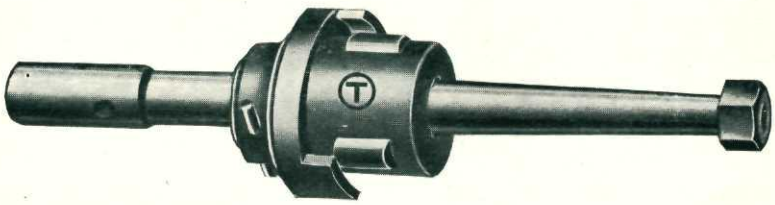
One punch and die furnished with each screw punch.

Extra punches and dies furnished on request as follows:
For A-B, 1/8 to 5/8 in. For C-D, 1/8 to 3/4 in. For E-F-G, 1/8 to 7/8 in.

PARTS

Screw Punch No.	Body	Screw	Coupling	Punch	Die	Set Screw
A or 00	$12.00	$12.50	$2.00	$2.10	$1.40	$ .50
B or 0	16.00	12.50	2.00	2.10	1.40	.50
C or 1	20.00	15.00	2.50	2.40	1.60	.60
D or 2	25.00	15.00	2.50	2.40	1.60	.60
E or 3	30.00	20.00	3.00	3.00	2.00	.75
F or 3 1/2	50.00	20.00	3.00	3.00	2.00	.75
G or 4	60.00	20.00	3.00	3.00	2.00	.75

Please note that the coupling is made with a left hand thread.



Oswego Standard Roller Tube Expander

THIS OSWEGO STANDARD ROLLER TUBE EXPANDER has a solid body and the principal wearing parts, the mandrels and rolls, are made of a good grade steel, properly hardened to resist wear and the tools are guaranteed to give good service.

One expander will answer for any thickness of tube sheet. The OSWEGO STANDARD ROLLER TUBE EXPANDER is the strongest and best expander of this class on the market. This expander is furnished with round head mandrel for hand use.

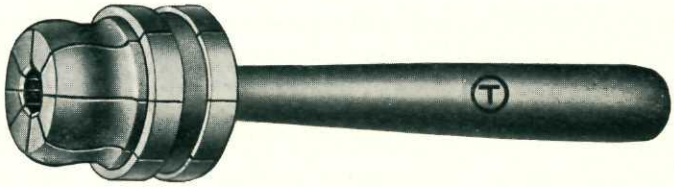
EXPANDERS

LIST

Diam. Inches	Code Word	List Price	Weight Each, Boxed lbs. oz.	List Price, Mandrel	Weight Each lbs. oz.	List Rolls Set of 3	Weight Rolls Set of 3 Ounces
1	Exact	**$10.00**	1 2	$ 1.00	-- 4	$ .50	1
1¼	Exalt	**10.00**	1 6	1.50	-- 6	.60	1½
1⅜	Exceed	**10.00**	1 14	2.00	-- 12	.70	2
1½	Excel	**10.00**	2 --	2.00	-- 12	.70	2
1⅝	Excess	**10.00**	2 14	2.00	-- 15	.80	2½
1¾	Excite	**10.00**	2 14	2.00	-- 15	.80	2½
1⅞	Excuse	**10.00**	3 10	2.50	1 4	.90	3
2	Exert	**10.00**	4 3	2.50	1 4	1.00	4½
2⅛	Exhale	**12.00**	5 7	3.00	1 14	1.15	5½
2¼	Exist	**12.00**	5 12	3.00	1 14	1.15	5½
2½	Exit	**14.00**	6 14	3.50	2 10	1.30	6½
2¾	Exode	**16.00**	8 4	3.50	2 10	1.45	9
3	Expel	**18.00**	9 14	4.00	3 11	1.60	10½
3¼	Expert	**20.00**	12 6	4.50	4 2	1.75	13
3½	Expire	**23.00**	14 2	5.00	5 2	2.00	16
3¾	Export	**25.00**	17 --	5.75	5 5	2.25	18½
4	Extent	**30.00**	20 --	6.50	6 --	2.50	20½
4¼	Extol	**35.00**	23 --	8.00	8 7	3.50	23
4½	Extra	**40.00**	27 --	8.00	11 --	3.50	25
5	Extreme	**50.00**	40 --	10.00	13 8	4.00	35
6	Exult	**60.00**	56 --	15.00	21 --	5.00	57

RANGE OF EXPANSION

Size	Length Rolls	Diameter Rolls
1 " goes into $\frac{25}{32}$" hole and rolls to $\frac{15}{16}$"	¾"	$\frac{9}{32}$"
1¼" goes into $1\frac{1}{32}$" hole and rolls to $1\frac{7}{32}$"	¾"	$\frac{23}{64}$"
1⅜" goes into $1\frac{3}{16}$" hole and rolls to 1⅜"	¾"	$\frac{23}{64}$"
1½" goes into 1¼" hole and rolls to 1½"	¾"	$\frac{7}{16}$"
1⅝" goes into $1\frac{7}{16}$" hole and rolls to 1⅝"	⅞"	$\frac{15}{32}$"
1¾" goes into 1½" hole and rolls to 1¾"	⅞"	$\frac{17}{32}$"
1⅞" goes into 1⅝" hole and rolls to 1⅞"	⅞"	$\frac{9}{16}$"
2 " goes into 1¾" hole and rolls to 2 "	$1\frac{1}{16}$"	⅝"
2⅛" goes into 1⅞" hole and rolls to 2⅛"	$1\frac{1}{16}$"	⅝"
2¼" goes into 2 " hole and rolls to 2¼"	$1\frac{1}{16}$"	$\frac{11}{16}$"
2½" goes into $2\frac{7}{32}$" hole and rolls to 2½"	$1\frac{1}{16}$"	¾"
2¾" goes into $2\frac{15}{32}$" hole and rolls to 2¾"	$1\frac{1}{16}$"	⅞"
3 " goes into $2\frac{11}{16}$" hole and rolls to 3 "	1⅛"	$\frac{15}{16}$"
3¼" goes into 2⅞" hole and rolls to 3¼"	1¼"	1 "
3½" goes into 3⅛" hole and rolls to 3½"	1¼"	$1\frac{3}{32}$"
3¾" goes into 3⅜" hole and rolls to 3¾"	1¼"	$1\frac{3}{16}$"
4 " goes into 3⅝" hole and rolls to 4 "	1¼"	1¼"
4¼" goes into 3⅞" hole and rolls to 4¼"	1¼"	$1\frac{5}{16}$"
4½" goes into 4⅛" hole and rolls to 4½"	1¼"	1⅜"
5 " goes into 4½" hole and rolls to 5 "	1⅜"	$1\frac{9}{16}$"
6 " goes into 5½" hole and rolls to 6 "	$1\frac{17}{32}$"	1⅞"



Oswego Standard Sectional Spring Tube Expander

(Prosser Type)

LIST

Diameter, Inches	Code Word	List Price	Weight Each, Boxed lbs. oz.	List Round Pin	List Steel Spring
1	Profile	**$12.00**	-- 14	$1.75	$ .50
1¼	Profit	**12.00**	1 5	1.75	.50
1½	Prompt	**12.00**	1 12	1.75	.50
1⅝	Prone	**12.00**	2 2	1.75	.50
1¾	Prong	**12.00**	2 4	1.75	.50
1⅞	Proof	**12.00**	2 8	2.00	.50
2	Prop	**12.00**	3 --	2.00	.50
2⅛	Proper	**13.00**	3 4	2.25	.50
2¼	Propose	**13.00**	4 3	2.25	.50
2⅜	Prose	**15.00**	4 12	2.50	.60
2½	Prospect	**15.00**	4 14	2.50	.60
2¾	Prosper	**18.00**	6 9	2.75	.60
3	Prosy	**22.00**	7 9	3.00	.80
3¼	Protect	**26.00**	10 --	3.25	.80
3½	Protest	**30.00**	10 3	3.50	.80
3¾	Proud	**33.00**	13 --	4.00	.80
4	Prove	**33.00**	13 10	4.00	.80

When ordering sectional expanders, *give thickness of tube sheet.*

When no thickness of tube sheet is specified, expanders will be supplied for one-half inch thickness.

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